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ABSTRACT

In spring 1988, 103 bilingual/English-as-a-Second-Language (ESL) and ESL-only school districts in New Jersey participated in a study to establish norms for the Language Assessment Battery (LAB) and Maculaitis Assessment Program (MAC) in grades K-12. This manual is designed to provide local district staff with the study's results and to make recommendations for how bilingual/ESL and ESL-only districts can use the results for placement and evaluation. The manual consists of three main sections and appendixes. The first section presents the purpose of the study and a description of the sample population. The second section explains the methods used to establish cutoff scores for the MAC and both forms of the LAB. Section 3 contains information on how to use the norms and cutoff scores for placement and evaluation. Appendixes consist of a list of the study's participating districts, norm tables, and fall and spring cutoff scores. (MSE)

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NORMING STUDY OF THE LANGUAGE ASSESSMENT BATTERY AND THE MACULAITIS ASSESSMENT PROGRAM

PRACTITIONER'S REPORT

NEW JERSEY STATE DEPARTMENT OF EDUCATION

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NORMING STUDY OF THE LANGUAGE ASSESSMENT BATTERY AND THE MACULAITIS ASSESSMENT PROGRAM - PRACTITIONER'S REPORT

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INTRODUCTION

In the spring of 1988, 103 bilingual/ESL and ESL-only districts in New Jersey participated in the Norming Study for the Language Assessment Battery (LAB) and the Maculaitis Assessment Program (MAC) in grades K-12. This manual has been designed to provide local district staff with the results of the study. In addition, recommendations on how bilingual and ESL-only districts can use the results of the study for placement and evaluation purposes are included.

This manual consists of three major sections and appendices. Section I presents the purpose of the study and a description of the sample population. Section II explains the methods used to establish the cutoff scores and to determine equivalent scores for the MAC and both forms of the LAB. Section III includes information on how to use the norms and cutoff scores for placement and evaluation purposes. The appendices contain a list of the districts that participated in the study, norms tables and the fall and spring cutoff scores.

SECTION I

OVERVIEW OF THE STUDY

PURPOSE OF THE STUDY

English language proficiency tests are used in New Jersey to identify limited English proficient (LEP) students for participation in bilingual and ESL-only programs and to evaluate their progress in the development of English skills. Students are defined as limited English proficient on the basis of a language proficiency test along with other indicators. A student who fails to meet the proficiency level is considered LEP and must receive special language assistance. A student who meets the proficiency level is considered English proficient and is placed in the mainstream program.

The two tests most widely used by local school districts in New Jersey are the Language Assessment Battery (LAB) and the Maculaitis Assessment Program (MAC). A study of the LAB and the MAC was conducted in the spring of 1988 by the Department of Education. The goals of the study were to:

- Establish state norms for the LAB-Form A, the LAB-Form B and the MAC for grades K-12;
- Equate the LAB-Form A and the LAB-Form B for grades K-12;
- Provide equivalent scores for both forms of the LAB and the MAC for grades K-12; and
- Determine English proficiency cutoff scores for the LAB-Form A, the LAB-Form B and the MAC for grades K-12.

No cutoff scores had existed for the MAC other than the fluency cutoff score established as part of the graduation policy for LEP students. Since an increasing number of districts will be using the MAC to assess English language proficiency and fluency, it was decided to establish norms and cutoff scores for this test.

Although norms and cutoff scores existed for the LAB, they had been set in 1982. Additionally, the Speaking subtest had only been included for the lowest level (grades K-2). This study resulted in updated norms and cutoff scores for the LAB that include the Speaking subtest for all grade levels.

To ensure the successful implementation of the study, regional training sessions were conducted during March and April 1988 for a sample of staff members from all districts participating in the study. The purposes of these sessions were to familiarize districts with the goals and logistics of the study and to provide them with some hands-on training in the administration and scoring of the LAB and the MAC.

STUDY DEMOGRAPHICS

Districts tested students between April 25 and May 31, 1988. The sample for the study included both LEP and English proficient students. A representative sample of LEP students in grades K-12 and a sample of English proficient students at the same grades were tested. English proficient students were included in the study so that cutoff scores could be established. LEP students were tested twice with one of the following combinations of tests:

- LAB-Form A and LAB-Form B; or
- LAB-Form B and the MAC.

Only one testing combination was used within each district participating in the study. English proficient students were administered only one test. The number of English proficient students taking a given test tended to be distributed equally between the two tests administered within a district.

Of the 234 bilingual/ESL and ESL-only districts in New Jersey, 103 participated in the study. Twenty-five of these were urban districts. The other districts in the study were suburban, rural, or vocational. Table 1 contains a breakdown of the number of LEP students (including those in bilingual programs as well as those in ESL-only programs) and the number of English proficient students who participated in the study by test form.

TABLE 1

Summary of Norming Study Sample by Student Type and Test Form

	Test		
Student Type	MAC	LAB-Form A	LAB-Form B
LEP	3,522	2,273	5,928
English proficient	1,870	1,509	3,692
Total	5,392	3,782	9,620

Of the 12,999 students in the study, 7,071 (54%) were English proficient students and 5,928 (46%) were LEP students. All LEP students took the LAB-Form B.

Table 2 contains a summary of the norming study sample by grade, student type and sex. The distribution by sex within each student type was almost evenly divided. Of the total sample in the study, 2,620 (20%) were in ESL-only programs, 3,308 (26%) were in bilingual/ESL programs and 7,071 (54%) were English proficient students. Table 3 contains a summary of the sample by grade and student type.

Table 4 contains a summary of the sample by language and student type. The majority of the LEP students (58%) indicated that Spanish was their native language.

TABLE 2

Summary of Norming Study Sample by Grade, Student Type and Sex

	Student Type					
	ESL-Only		Bilingual/ESL		English Proficient	
Grade	Male	Female	Male	Female	Male	Female
K	142	111	213	204	295	304
1	127	109	217	193	276	299
2	88	85	171	169	278	291
3	58	69	148	166	264	301
4	95	85	127	154	270	309
5	92	58	115	117	269	280
6	95	58	104	99	273	279
7	82	59	107	98	240	262
8	80	65	87	76	221	309
9	210	201	116	114	258	298
10	166	151	103	113	248	290
11	116	111	75	85	242	256
12	49	58	59	78	234	225
TOTAL	1,400	1,220	1,642	1,666	3,368	3,703

TABLE 3

Summary of Norming Study Sample by Grade and Student Type

	Student Type	
Grade	LEP	English Proficient
K	670	599
1	646	575
2	513	569
3	441	565
4	461	579
5	382	549
6	356	552
7	346	502
8	308	530
9	641	556
10	533	538
11	387	498
12	244	459
TOTAL	5,928	7,071

TABLE 4

Summary of Norming Study Sample by Language and Student Type

Language	Student Type		
	ESL-Only	Bilingual/ESL	English Proficient
Arabic	93	1	22
Cantonese	70	1	10
Creole	62	280	0
English	24	9	6,336
Gujarati	112	58	7
Japanese	140	119	3
Korean	337	65	19
Mandarin	142	18	4
Polish	54	0	3
Portuguese	107	52	21
Spanish	731	2,691	505
Tagalog	48	0	2
Vietnamese	106	2	8
Other	594	12	131
TOTAL	2,620	3,308	7,071

SECTION II

NORMING STUDY METHODOLOGY

METHODS USED TO DETERMINE EQUIVALENT SCORES

In order to establish cutoff scores that were comparable for the MAC and both forms of the LAB, it was necessary to determine equivalent scores for the three tests. The sample used for these analyses consisted of all LEP students who took two tests. A total of 2,045 LEP students took the LAB-Form A and the LAB-Form B while 3,159 LEP students took the LAB-Form B and the MAC.

Linear methods were used to determine equivalent scores for the LAB-Form B and the MAC for grades K, 1, 3, 6, 7, 8, 9, 10, 11 and 12. Equipercentile methods were used to determine equivalent scores for the LAB-Form B and the MAC for grades 2, 4 and 5 since a curvilinear relationship existed between the two tests for these grades. Linear equating was used to equate the LAB-Form A and the LAB-Form B for all grades (K-12). Means, standard deviations and reliabilities for the MAC, the LAB-Form A and the LAB-Form B will be included in a technical report of the norming study.

After the equivalent scores were determined, tables of norms were constructed for each grade for fall and spring (see Appendix B). The fall norms were extrapolated from the spring norms. Post hoc analyses will be conducted to verify the fall norms. Information on how to use the norms tables is contained in Section III of this report.

METHODS USED TO ESTABLISH CUTOFF SCORES

Cutoff scores were set separately for each grade level. For each grade, a discriminant analysis was performed to determine the total raw score on each test that most accurately separated the English proficient students and the LEP students. Only those students who indicated that their home language was English were included in the English proficient group for the purposes of setting the cutoff scores. The discriminant analyses were conducted separately for each test. Using the results of the discriminant analysis, cutoff scores were set for 9 of the 13 grades, i.e., grades 2, 4, 5, 6, 7, 8, 9, 10 and 11. Additional analyses were performed for grades K, 1, 3 and 12 in order to establish reliable cutoff scores. The initial discriminant analyses for grades K and 1 resulted in unreliable cutoff scores because the LAB and the MAC were too easy for the English proficient students. The cutoff scores set for grades 3 and 12 corresponded to percentiles somewhat lower (grade 3) and somewhat higher (grade 12) than the percentiles corresponding to the cutoff scores for the remaining grades. Further analyses were performed for grades 3 and 12 in order to verify the cutoff scores set on the basis of the initial discriminant analyses.

Secondary discriminant analyses were performed for grades K, 1, 3 and 12 based on a subset of the items on each test which were more difficult for the English proficient students. The number of items in the subsets ranged from four to 45. A subset score comprised of the sum of the most difficult items on the test for the English proficient students, i.e., those items answered correctly by 90 percent or fewer of the English proficient students, was used as the basis for the discriminant analyses. The resulting item subset cutoff scores were converted back to the scale of the total test as the final step of the analysis.

SECTION III

USE OF NORMS AND CUTOFF SCORES

This section is comprised of two parts. The first part includes a discussion of how and when the norms tables should be used and the second part addresses the use of the cutoff score table.

USE OF NORMS TABLES

The purposes of this part of the manual are to describe what information is included in the norms tables, when they should be used and how they should be used to report annual evaluation results.

Appendix B contains separate norms tables for each grade level as follows:

- Tables B1 to B14 include the fall norms; and
- Tables B15 to B28 include the spring norms.

Each table includes the raw scores, percentiles, and normal curve equivalents (NCEs) for the MAC and both forms of the LAB. Please note that all LAB scores include the Speaking subtest as part of the total test raw score.

The fall norms tables should be used when a student is tested between September 1 and December 31. The spring norms tables should be used when a student is tested between January 1 and June 30. If any summer testing occurs, the spring norms tables should be used.

With the development of new norms tables for the LAB and the MAC, several testing options are available to local school districts testing students for language proficiency. The following testing options are possible:

(1) pretesting and posttesting with the same test or test form (e.g., using the LAB-Form A as a pretest and as a posttest);

(2) pretesting and posttesting with different forms of the LAB (e.g., using the LAB-Form A as a pretest and the LAB-Form B as a posttest); and

(3) pretesting and posttesting with different tests (e.g., using the LAB-Form A as a pretest and the MAC as a posttest).

Option three should be used only when a district is changing from the use of one test to another and should not be used on an on-going basis since it is preferable to use the same test for evaluation purposes.

Use of the Norms Tables to Report Annual Evaluation Results. The norms tables should be used by districts when reporting annual evaluation results. Only students who have data for both a pretest and a posttest should be included in the evaluation. After a test is administered, the district should determine (either by scoring themselves or using a contractor to perform the scoring) each student's total test raw score. Following are the steps used to convert raw scores to NCEs using the norms tables:

(1) Determine a student's total test raw score;

(2) Locate the appropriate norms table in Appendix B (depending on the student's grade level and when the test was administered, i.e., fall or spring);

(3) Find the column for the test that was administered (i.e., the LAB-Form A, the Lab-Form B or the MAC);

(4) Locate the student's total test raw score in that column;

(5) Read across the row that the student's total test raw score appears in to locate the corresponding NCE; and

(6) Repeat steps one to five for all students in a given grade who took the same test form.

Steps one to six should be repeated for pretest and posttest results separately. Once this is done, a pretest NCE mean and a posttest NCE mean can be calculated. To calculate the average NCE score gain, the pretest NCE mean is subtracted from the posttest NCE mean, regardless of which test (the MAC or the LAB) is administered as a pretest or a posttest.

Use of the Norms Tables When the LAB is Used to Report Annual Evaluation Results. In the past, language proficiency evaluation using the LAB (grades 2-12) has been conducted using all subtests except the Speaking subtest since the New York norms did not include this subtest. Starting in 1989, New Jersey norms based on the total LAB score will be available and recommended for use. Following are the evaluation guidelines for 1988-1989 when the LAB is used:

- All districts using the LAB should administer the entire test (including the Speaking subtest) in the spring of 1989 as a posttest.

- For districts that have administered the entire test for the pretest (spring or fall, 1988), the total test scores (pretest and posttest) should be used for the evaluation and the new New Jersey norms included in this report should be used.

- For districts that have administered all parts of the LAB except the Speaking subtest for the pretest, a score based on the test excluding the Speaking subtest should be used for both the pretest and the posttest. These test scores should be referenced to the New York norms for the 1988-1989 evaluation.

Beginning with the school year 1989-1990, all districts using the LAB for evaluation should report results based on the total test score and use the new New Jersey norms included in this report. In other words, the entire test, including the Speaking subtest, will be the pretest beginning with the 1989-1990 school year.

Use of the Norms Tables for Grades K and 1. Recent changes to Level I of the LAB have resulted in a variety of combinations of subtests that could be administered to students in grades K-1. The current version of the LAB contains a new subtest, Beginning Reading, which is to be administered to end of kindergarten and beginning grade 1 students. This new subtest replaces the Reading/Writing subtest for first graders tested in the fall and is an additional subtest for kindergarteners tested in the spring. First graders tested in the spring would still take the Reading/Writing subtest. Some districts will be using the old version of the LAB in which kindergarten students take only the Listening/Speaking subtest in the fall and the spring and grade 1 students take the Listening/Speaking subtest as well as the Reading/Writing subtest in the fall and the spring. In order to accommodate the various versions of the LAB that may be given in grades K and 1, Tables B1, B2 and B3 have been developed for the fall norms and Tables B15, B16 and B17 have been developed for the spring norms.

When using the norms tables for grade K:

- always use Table B1 for the pretest (regardless of whether the LAB or the MAC was administered);
- use Table B16 if the LAB Listening/Speaking and Beginning Reading subtests were administered as a posttest;
- use Table B17 if the MAC was administered as a posttest; and
- use Table B17 if only the LAB Listening/Speaking subtest was administered as a posttest.

When using a fall-spring testing schedule for grade 1:

- use Table B2 if the LAB Listening/Speaking and Beginning Reading subtests were administered as a pretest;
- use Table B3 if the LAB Listening/Speaking and Reading/Writing subtests were administered as a pretest;
- use Table B3 if the MAC was administered as a pretest; and
- always use Table B17 for the posttest (regardless of whether the LAB or the MAC was administered).

When using a spring-spring testing schedule for grade 1:

- use Table B15 if only the LAB Listening/Speaking subtest was administered as a pretest;
- use Table B15 if the MAC was administered as a pretest;
- use Table B16 if the LAB Listening/Speaking and Beginning Reading subtests were administered as a pretest; and
- always use Table B17 for the posttest (regardless of wnether the LAB or the MAC was administered).

USE OF CUTOFF SCORE TABLE

The purposes of this part of the manual are to describe what information is included in the cutoff score table and how the information should be used to make decisions about students' English language proficiency.

Appendix C contains the fall and spring cutoff scores for the LAB-Form A, the Lab-Form B and the MAC which are effective as of spring 1989. The table includes grade level, test level, total possible score and fall and spring cutoff scores for the MAC and both forms of the LAB. The cutoff scores listed are based on total test raw scores.

The cutoff score table should be used by districts when making decisions about entry into, exit from, and re-entry into bilingual and ESL-only programs. After a test is administered, the district should determine (either by scoring themselves or using a contractor to perform the scoring) each student's total test raw score. Following are the steps used to make a decision about a student's English language proficiency using the cutoff score table:

(1) Determine a student's total test raw score;

(2) Find the columns that correspond to the test that was administered;

(3) Select the fall cutoff score column if the test was administered between September 1 and December 31. Select the spring cutoff score column if the test was administered between January 1 and June 30. If any summer testing occurs, the spring cutoff score column should be used.

(4) Read down the column selected to locate the cutoff score corresponding to the student's grade level at the time of testing; and

(5) If the student scores <u>at or above</u> the cutoff score indicated on the table, he/she would be considered English proficient on the basis of the language proficiency test used.

It should be noted that there are two sets of LAB cutoff scores for both kindergarteners and first graders. Two sets of LAB cutoff scores are necessary because of the testing options possible for these grades. Make sure the appropriate cutoff score for kindergarteners and first graders is used when making entry and exit decisions with the LAB.

APPENDIX A

Districts Participating in Norming Study

County	District
Atlantic	Atlantic City
Atlantic	Galloway Township
Atlantic	Greater Egg Harbor Regional
Atlantic	Hammonton Town
Atlantic	Pleasantville
Bergen	Bergenfield
Bergen	Cliffside Park
Bergen	Cresskill
Bergen	Edgewater
Bergen	Elmwood Park
Bergen	Fort Lee
Bergen	Harrington Park
Bergen	Little Ferry
Bergen	New Milford
Bergen	North Arlington
Bergen	Northern Valley Regional
Bergen	Palisades Park
Bergen	Paramus
Bergen	Pascack Valley Regional High School
Bergen	Ridgefield
Bergen	River Edge
Bergen	Upper Saddle River
Bergen	Waldwick
Bergen	Wyckoff
Burlington	Delran Township
Burlington	Maple Shade
Burlington	Mount Laurel Township
Burlington	Pemberton Township
Burlington	Riverside
Camden	Black Horse Pike
Camden	Camden City
Camden	Camden County Vocational
Camden	Cherry Hill
Camden	Gloucester Township
Camden	Lindenwold
Camden	Lower Camden County Regional
Camden	Voorhees
Cumberland	Bridgeton
Cumberland	Fairfield Township
Cumberland	Millville
Essex	Belleville
Essex	East Orange
Essex	Essex County Vocational
Essex	Newark (Barringer Prep. School)

Districts Participating in Norming Study

County	District
Essex	Nutley
Essex	West Orange
Gloucester	Glassboro
Gloucester	Washington Township
Hudson	East Newark
Hudson	North Bergen
Hudson	Secaucus
Hudson	West New York
Mercer	East Windsor
Mercer	Trenton
Mercer	West Windsor-Plainsboro Regional
Middlesex	Carteret
Middlesex	East Brunswick
Middlesex	Highland Park
Middlesex	Metuchen
Middlesex	Middlesex Borough
Middlesex	Old Bridge Township
Middlesex	Piscataway Township
Middlesex	South Brunswick
Monmouth	Bradley Beach
Monmouth	Eatontown
Monmouth	Freehold Township
Monmouth	Howell Township
Monmouth	Long Branch
Monmouth	Manalapan-Englishtown Regional
Monmouth	Matawan-Aberdeen Regional
Monmouth	Middletown Township
Monmouth	Neptune Township
Monmouth	Ocean Township
Monmouth	Union Beach
Morris	Dover
Morris	East Hanover
Morris	Kinnelon
Morris	Madison
Morris	Montville Township
Morris	Morris
Morris	Mount Olive Township
Morris	Rockaway Township
Morris	Roxbury Township
Morris	Wharton
Ocean	Brick Township
Ocean	Jackson Township
Ocean	Southern Regional

Districts Participating in Norming Study

County	District
Passaic	Haledon
Passaic	Hawthorne
Passaic	Little Falls
Passaic	Passaic County Manchester Regional
Passaic	Passaic County Technical-Vocational High School
Passaic	Paterson
Passaic	Prospect Park
Passaic	West Milford Township
Salem	Penns Grove-Carneys Point Regional
Salem	Salem City
Somerset	Bound Brook
Union	Hillside
Union	Linden
Union	Rahway
Union	Union County Regional
Warren	Phillipsburg

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TABLE B1

FALL NORMS - GRADE K

KINDERGARTENERS WHO TAKE THE MAC OR THE LAB LISTENING/SPEAKING SUBTEST

LAB-Form A Raw Score	LAB-Form B Raw Score	MAC Raw Score	Percentile	NCE
28-30	27-30	105-126	96	86.9
		103-104	95	84.6
27	25-26	98-102	94	82.7
		95-97	93	81.1
26	24	94	92	79.6
		93	90	77.0
		92	89	75.8
25	23	91	87	73.7
		90	86	72.8
		89	84	70.9
		88	82	69.3
24	22	87	77	65.6
		86	76	64.9
		85	74	63.5
		84	72	62.3
23	21	83	70	61.0
		82	68	59.9
		81	65	58.1
22	20	80	63	57.0
		79	60	55.3
		78	57	53.7
		77	55	52.6
21	19	76	53	51.6
		75	52	51.1
		74	51	50.5
		73	50	50.0
20	18	72	49	49.5
		71	48	48.9
		70	46	47.9
19	17	68-69	44	46.8
		67	42	45.8
		66	40	44.7
18	16	65	36	42.5
		64	34	41.3
		63	32	40.1
		62	30	39.0
17	15	61	29	38.3
		60	27	37.1
		59	26	36.5
16	14	57-58	24	35.1
15		56	23	34.4
14	13	54-55	21	33.0
13		51-53	18	30.7
12	12	49-50	17	29.9
		47-48	16	29.1
11	11	45-46	15	28.2
10	10	43-44	13	26.3
		40-42	12	25.3

TABLE B1
(continued)

FALL NORMS - GRADE K

KINDERGARTENERS WHO TAKE THE
MAC OR THE LAB LISTENING/SPEAKING SUBTEST

LAB-Form A Raw Score	LAB-Form B Raw Score	MAC Raw Score	Percentile	NCE
9	9	39	11	24.2
8	8	35-38	8	20.4
7	7	31-34	7	18.9
		28-30	6	17.3
6	6	24-27	5	15.4
5	5	20-23	3	10.4
4	4	16-19	2	6.7
1-3	1-3	1-15	1	1.0

WR/ckb:1/2950h

TABLE B2

FALL NORMS - GRADE 1

FIRST GRADERS WHO TAKE THE LAB LISTENING/SPEAKING AND BEGINNING READING SUBTESTS

LAB-Form A Raw Score	LAB-Form B Raw Score	Percentile	NCE
	58	97	89.6
58	57	96	86.9
57	56	94	82.7
56	55	88	74.7
55	54	73	62.9
54	53	67	59.3
53	52	61	55.9
52	51	51	50.5
51	50	44	46.8
49-50	48-49	37	43.0
48	47	34	41.3
47	46	33	40.7
46	45	32	40.1
44-45	43-44	29	38.3
42-43	41-42	26	36.5
40-41	40	23	34.4
38-39	38-39	21	33.0
37	37	20	32.3
36	36	17	29.9
34-35	34-35	16	29.1
33	33	15	28.2
32	32	13	26.3
31	31	11	24.2
30	30	10	23.0
28-29	28-29	9	21.8
27	27	8	20.4
25-26	25-26	7	18.9
22-24	22-24	5	15.4
21	21	4	13.1
20	20	3	10.4
16-19	16-19	2	6.7
1-15	1-15	1	1.0

WR/ckb:1/2951h

TABLE B3

FALL NORMS - GRADE 1

FIRST GRADERS WHO TAKE THE MAC OR THE LAB LISTENING/SPEAKING AND READING/WRITING SUBTESTS

LAB-Form A Raw Score	LAB-Form B Raw Score	MAC Raw Score	Percentile	NCE
54-58	54-58	116-126	99	99.0
		115	98	93.3
	53	114	97	89.6
53	52	112-113	96	86.9
		111	95	84.6
52	51	110	94	82.7
		109	93	81.1
51	50	108	90	77.0
		107	89	75.8
50	49	106	88	74.7
		105	86	72.8
49	48	104	84	70.9
		103	82	69.3
48	47	102	80	67.7
		101	77	65.6
47	46	100	73	62.9
		99	69	60.4
46	45	98	67	59.3
		97	65	58.1
45	44	96	62	56.4
		95	61	55.9
44	43	94	58	54.2
		93	53	51.6
43	42	92	51	50.5
		91	50	50.0
42	41	90	46	47.9
		89	44	46.8
41	40	88	41	45.2
39-40	38-39	85-87	37	43.0
		84	36	42.5
38	37	83	34	41.3
37	36	81-82	33	40.7
36	35	79-80	32	40.1
35	34	76-78	29	38.3
34	33	75	26	36.5
32-33	32	73-74	23	34.4
31	31	71-72	21	33.0
30	30	68-70	20	32.3
29	29	66-67	17	29.9
28	28	65	16	29.1
27	27	63-64	15	28.2
26	26	60-62	14	27.2
25	25	58-59	13	26.3
24	24	56-57	11	24.2
23	23	54-55	10	23.0
22	22	52-53	9	21.8
21	21	50-51	8	20.4
20	20	49	7	18.9

TABLE B3
(continued)

FALL NORMS - GRADE 1

FIRST GRADERS WHO TAKE THE MAC OR THE LAB
LISTENING/SPEAKING AND READING/WRITING SUBTESTS

LAB-Form A Raw Score	LAB-Form B Raw Score	MAC Raw Score	Percentile	NCE
19	19	47-48	5	15.4
18	18	45-46	4	13.1
17	17	43-44	3	10.4
13-16	13-16	32-42	2	6.7
1-12	1-12	1-31	1	1.0

WR/ckb:1/2952h

TABLE B4

FALL NORMS BASED ON TOTAL TEST SCORE - GRADE 2

LAB-Form A Raw Score	LAB-Form B Raw Score	MAC Raw Score	Percentile	NCE
56-58	56-58	151-177	99	99.0
		141-150	98	93.3
55	55	140	97	89.6
		139	96	86.9
		138	95	84.6
		137	94	82.7
		136	93	81.1
54	54	135	92	79.6
		134	90	77.0
		133	89	75.8
		132	88	74.7
53	53	131	87	73.7
		129-130	86	72.8
		127-128	85	71.8
		125-126	84	70.9
51-52	52	124	83	70.1
		123	82	69.3
		121-122	81	68.5
		120	80	67.7
50	51	119	79	67.0
		117-118	78	66.3
		116	77	65.6
49	50	115	75	64.2
		113-114	73	62.9
48	49	112	71	61.7
		111	69	60.4
		110	67	59.3
47	48	109	65	58.1
		108	61	55.9
46	47	107	57	53.7
		106	53	51.6
		105	50	50.0
45	46	104	44	46.8
		103	41	45.2
43-44	44-45	98-102	38	43.6
42	43	96-97	33	40.7
		95	32	40.1
41	42	93-94	31	39.6
40	41	91-92	30	39.0
	40	89-90	27	37.1
39	39	87-88	24	35.1
		86	22	33.7
38	38	85	21	33.0
		84	20	32.3
37	37	83	19	31.5
36	36	82	15	28.2
35	35	80-81	14	27.2
34	34	77-79	12	25.3
33	33	75-76	10	23.0
32	32	73-74	9	21.8
31	31	71-72	8	20.4

TABLE B4
(continued)

FALL NORMS BASED ON TOTAL TEST SCORE - GRADE 2

LAB-Form A Raw Score	LAB-Form B Raw Score	MAC Raw Score	Percentile	NCE
30	30	69-70	7	18.9
29	29	67-68	6	17.3
27-28	27-28	64-66	5	15.4
26	26	61-63	4	13.1
25	25	59-60	3	10.4
22-24	22-24	51-58	2	6.7
1-21	1-21	1-50	1	1.0

WR/ckb:1/2953h

TABLE B5

FALL NORMS BASED ON TOTAL TEST SCORE - GRADE 3

LAB-Form A Raw Score	LAB-Form B Raw Score	MAC Raw Score	Percentile	NCE
106-112	108-112	162-177	99	99.0
103-105	105-107	159-161	97	89.6
102	104	157-158	96	86.9
101	103	156	94	82.7
98-100	100-102	153-155	93	81.1
94-97	97-99	149-152	92	79.6
92-93	95-96	147-148	91	78.2
91	94	146	90	77.0
	93	145	89	75.8
90	92	144	87	73.7
89	91	142-143	86	72.8
88	90	141	85	71.8
87	89	140	77	65.6
86	88	139	76	64.9
85	87	138	73	62.9
84	86	137	71	61.7
		136	68	59.9
	85	135	65	58.1
82-83	83-84	133-134	63	57.0
81	82	132	62	56.4
80	81	131	58	54.2
79	80	130	55	52.6
77-78	78-79	127-129	53	51.6
76	77	126	50	50.0
75	76	125	48	48.9
74	75	124	47	48.4
72-73	73-74	122-123	44	46.8
70-71	71-72	119-121	43	46.3
68-69	69-70	117-118	42	45.8
67	68	116	40	44.7
65-66	66-67	113-115	39	44.1
64	65	112	38	43.6
63	64	111	35	41.9
62	63	110	33	40.7
61	62	109	32	40.1
60	61	108	30	39.0
59	60	106-107	29	38.3
58	59	105	26	36.5
57	58	104	24	35.1
56	57	103	23	34.4
54-55	55-56	101-102	22	33.7
52-53	53-54	98-100	21	33.0
51	52	97	20	32.3
50	51	96	18	30.7
49	50	95	17	29.9
47-48	48-49	93-94	16	29.1
46	47	91-92	15	28.2
45	46	90	13	26.3
44	45	89	12	25.3
43	43-44	87-88	11	24.2
41-42	41-42	85-86	10	23.0

TABLE B5
(continued)

FALL NORMS BASED ON TOTAL TEST SCORE - GRADE 3

LAB-Form A Raw Score	LAB-Form B Raw Score	MAC Raw Score	Percentile	NCE
40	40	83-84	9	21.8
39	39	82	8	20.4
34-38	35-38	77-81	7	18.9
33	34	76	6	17.3
31-32	31-33	72-75	5	15.4
29-30	29-30	70-71	4	13.1
23-28	23-28	62-69	3	10.4
22	22	61	2	6.7
1-21	1-21	1-60	1	1.0

WR/ckb:1/2968h

TABLE B6

FALL NORMS BASED ON TOTAL TEST SCORE - GRADE 4

LAB-Form A Raw Score	LAB-Form B Raw Score	MAC Raw Score	Percentile	NCE
107-112	108-112	170-209	99	99.0
		168-169	98	93.3
106	107	165-167	97	89.6
105	106	163-164	96	86.9
		159-162	95	84.6
104	105	158	94	82.7
		156-157	93	81.1
102-103	104	155	92	79.6
		154	91	78.2
		153	90	77.0
101	103	152	89	75.8
		151	88	74.7
		150	87	73.7
100	102	149	86	72.8
99	101	148	85	71.8
98		146-147	84	70.9
97	100	145	83	70.1
96	99	143-144	81	68.5
95	98	141-142	80	67.7
94	97	139-140	79	67.0
93	96	138	76	64.9
		137	74	63.5
92	95	136	72	62.3
91	94	134-135	71	61.7
90	93	133	70	61.0
89	92	131-132	69	60.4
88	91	130	65	58.1
		129	63	57.0
	90	128	62	56.4
87	89	127	60	55.3
86	88	126	59	54.8
85	87	125	57	53.7
84	86	124	55	52.6
83	85	123	53	51.6
82	84	122	51	50.5
		121	50	50.0
81	83	120	49	49.5
80	82	119	48	48.9
79	81	118	45	47.4
	80		43	46.3
78	79	116-117	41	45.2
76-77	77-78	112-115	40	44.7
74-75	75-76	109-111	38	43.6
73	74	107-108	37	43.0
72	73	105-106	35	41.9
71	72	103-104	33	40.7
70	71	101-102	32	40.1
68-69	69-70	99-100	30	39.0
67	68	98	29	38.3
66	67	95-97	28	37.7
65	66	93-94	27	37.1

TABLE B6
(continued)

FALL NORMS BASED ON TOTAL TEST SCORE - GRADE 4

LAB-Form A Raw Score	LAB-Form B Raw Score	MAC Raw Score	Percentile	NCE
64	65	92	26	36.5
63	64	91	24	35.1
62	63	89-90	23	34.4
61	62	88	22	33.7
60	61	87	21	33.0
59	60	86	20	32.3
58	59	85	19	31.5
57	58	84	18	30.7
56	57	83	17	29.9
54-55	55-56	77-82	16	29.1
53	54	74-76	15	28.2
52	53	72-73	14	27.2
50-51	51-52	70-71	13	26.3
48-49	49-50	66-69	12	25.3
47	48	64-65	11	24.2
46	47	62-63	10	23.0
45	46	60-61	9	21.8
44	45	58-59	8	20.4
43	44	56-57	7	18.9
42	43	54-55	6	17.3
41	42	53	5	15.4
40	41	52	4	13.1
37-39	38-40	50-51	3	10.4
34-36	34-37	45-59	2	6.7
1-33	1-33	1-44	1	1.0

WR/ckb:1/2970h

TABLE B7

FALL NORMS BASED ON TOTAL TEST SCORE - GRADE 5

LAB-Form A Raw Score	LAB-Form B Raw Score	MAC Raw Score	Percentile	NCE
111-112	111-112	191-209	99	99.0
108-110	109-110	186-190	98	93.3
107	108	180-185	97	89.6
		179	96	86.9
		177-178	95	84.6
106	107	176	94	82.7
		172-175	93	81.1
105	106	171	92	79.6
		168-170	91	78.2
104	105	167	90	77.0
		166	88	74.7
		165	86	72.8
		164	85	71.8
		163	84	70.9
102-103	104	162	83	70.1
		161	80	67.7
101	103	160	78	66.3
		157-159	77	65.6
100	102	156	75	64.2
99	101	153-155	74	63.5
97-98	100	150-152	73	62.9
		149	72	62.3
96	99	147-148	71	61.7
		146	70	61.0
		145	69	60.4
95	98	144	68	59.9
		143	67	59.3
		141-142	66	58.7
94	97	140	65	58.1
93	96	138-139	64	57.5
92	95	135-137	63	57.0
		134	61	55.9
91	94	133	60	55.3
		132	59	54.8
90	93	131	58	54.2
		129-130	57	53.7
89	92	128	56	53.2
		127	55	52.6
88	91	125-126	54	52.1
87	90	124	53	51.6
86	89	122-123	51	50.5
85	88	121	49	49.5
		120	48	48.9
84	87	119	47	48.4
		118	46	47.9
83	85-86	117	45	47.4
81-82	83-84	114-116	44	46.8
80	82	113	43	46.3
79	81	112	42	45.8
78	80	111	40	44.7

TABLE B7
(continued)

FALL NORMS BASED ON TOTAL TEST SCORE - GRADE 5

LAB-Form A Raw Score	LAB-Form B Raw Score	MAC Raw Score	Percentile	NCE
77	79		39	44.1
76	78	110	38	43.6
75	77	109	36	42.5
	76	107-108	34	41.3
74	75	106	33	40.7
72-73	73-74	104-105	32	40.1
70-71	71-72	101-103	31	39.6
69	70	99-100	30	39.0
68	69	98	27	37.1
67	68	97	26	36.5
66	67	96	25	35.8
65	66	95	24	35.1
63-64	64-65	91-94	23	34.4
61-62	62-63	87-90	22	33.7
60	61	85-86	21	33.0
59	60	84	19	31.5
57-58	58-59	82-83	16	29.1
55-56	56-57	81	15	28.2
54	55	80	14	27.2
53	54	78-79	13	26.3
52	53	75-77	12	25.3
51	52	74	11	24.2
47-50	48-51	70-73	10	23.0
46	47	68-69	9	21.8
43-45	44-46	64-67	8	20.4
42	43	62-63	7	18.9
41	42	60-61	6	17.3
39-40	40-41	57-59	5	15.4
37-38	38-39	54-56	4	13.1
35-36	36-37	52-53	3	10.4
33-34	34-35	50-51	2	6.7
1-32	1-33	1-49	1	1.0

WR/ckb:1/2969h

TABLE B8

FALL NORMS BASED ON TOTAL TEST SCORE - GRADE 6

LAB-Form A Raw Score	LAB-Form B Raw Score	MAC Raw Score	Percentile	NCE
129-139	129-139	172-199	99	99.0
127-128	127-128	169-171	98	93.3
126	126	168	95	84.6
124-125	124-125	165-167	94	82.7
123	123	164	93	81.1
121-122	121-122	161-163	92	79.6
120	120	160	91	78.2
118-119	118-119	157-159	90	77.0
117	117	156	89	75.8
115-116	115-116	153-155	88	74.7
114	114	152	86	72.8
113	113	151	85	71.8
112	112	149-150	83	70.1
111	111	148	79	67.0
110	110	147	77	65.6
109	109	145-146	76	64.9
108	108	144	74	63.5
107	107	143	72	62.3
		142	69	60.4
106	106	141	68	59.9
105	105	140	67	59.3
104	104	139	66	58.7
103	103	137-138	65	58.1
102	102	136	63	57.0
101	101	135	62	56.4
		134	61	55.9
99-100	99-100	132-133	58	54.2
98	98	131	57	53.7
97	97	130	56	53.2
		129	55	52.6
96	96	128	52	51.1
94-95	94-95	126-127	50	50.0
92-93	93	124-125	48	48.9
88-91	89-92	119-123	47	48.4
87	88	117-118	45	47.4
86	87	116	44	46.8
84-85	85-86	114-115	43	46.3
		113	42	45.8
82-83	83-84	111-112	41	45.2
81	82	110	40	44.7
80	81	109	39	44.1
79	80	107-108	38	43.6
78	79	106	36	42.5
77	78	104-105	35	41.9
74-76	75-77	100-103	34	41.3
72-73	73-74	97-99	33	40.7
70-71	71-72	95-96	31	39.6
69	70	94	30	39.0
67-68	68-69	91-93	29	38.3
66	67	90	28	37.7
64-65	65-66	88-89	27	37.1

TABLE B8
(continued)

FALL NORMS BASED ON TOTAL TEST SCORE - GRADE 6

LAB-Form A Raw Score	LAB-Form B Raw Score	MAC Raw Score	Percentile	NCE
63	64	86-87	26	36.5
59-62	60-63	81-85	23	34.4
58	59	79-80	22	33.7
57	58	78	19	31.5
56	57	77	18	30.7
55	56	75-76	17	29.9
54	55	74	15	28.2
53	54	72-73	14	27.2
52	53	71	12	25.3
50-51	51-52	69-70	11	24.2
47-49	48-50	65-68	10	23.0
46	47	63-64	9	21.8
43-45	44-46	60-62	8	20.4
41-42	42-43	57-59	7	18.9
39-40	40-41	54-56	5	15.4
36-38	37-39	50-53	4	13.1
33-35	33-36	45-49	3	10.4
28-32	28-32	40-44	2	6.7
1-27	1-27	1-39	1	1.0

WR/ckb:1/2971h

TABLE B9

FALL NORMS BASED ON TOTAL TEST SCORE - GRADE 7

LAB-Form A Raw Score	LAB-Form B Raw Score	MAC Raw Score	Percentile	NCE
133-139	134-139	176-199	98	93.3
130-132	130-133	170-175	97	89.6
127-129	127-129	167-169	96	86.9
125-126	125-126	165-166	95	84.6
123-124	123-124	162-164	94	82.7
121-122	121-122	160-161	92	79.6
118-120	118-120	155-159	91	78.2
113-117	113-117	149-154	89	75.8
112	112	148	86	72.8
111	111	147	84	70.9
110	110	146	81	68.5
109	109	144-145	80	67.7
108	108	143	79	67.0
107	107	142	78	66.3
106	106	141	72	62.3
104-105	104-105	138-140	71	61.7
103	103	137	70	61.0
102	102	135-136	69	60.4
101	101	134	65	58.1
99-100	99-100	132-133	63	57.0
97-98	97-98	129-131	62	56.4
96	96	128	60	55.3
93-95	94-95	125-127	59	54.8
92	93	124	58	54.2
90-91	91-92	121-123	53	51.6
89	90	120	52	51.1
88	89	119	49	49.5
86-87	87-88	117-118	48	48.9
85	86	115-116	46	47.9
84	85	114	44	46.8
83	84	113	43	46.3
81-82	82-83	110-112	42	45.8
80	81	109	40	44.7
79	80	108	38	43.6
78	79	107	36	42.5
77	78	106	35	41.9
75-76	76-77	103-105	33	40.7
74	75	102	31	39.6
73	74	101	30	39.0
72	73	99-100	28	37.7
70-71	71-72	97-98	26	36.5
69	70	95-96	25	35.8
67-68	68-69	93-94	24	35.1
66	67	91-92	23	34.4
65	66	90	22	33.7
		89	21	33.0
64	65	88	20	32.3
63	64	87	18	30.7
59-62	60-63	82-86	15	28.2
53-58	54-59	75-81	14	27.2

TABLE B9
(continued)

FALL NORMS BASED ON TOTAL TEST SCORE - GRADE 7

LAB-Form A Raw Score	LAB-Form B Raw Score	MAC Raw Score	Percentile	NCE
47-52	48-53	68-74	13	26.3
		67	12	25.3
45-46	46-47	65-66	11	24.2
42-44	43-45	61-64	9	21.8
38-41	39-42	56-60	8	20.4
37	38	55	7	18.9
36	37	53-54	6	17.3
33-35	34-36	49-52	5	15.4
26-32	27-33	41-48	4	13.1
25	26	40	3	10.4
21-24	21-25	33-39	2	6.7
1-20	1-20	1-32	1	1.0

WR/ckb:1/2973h

TABLE B10

FALL NORMS BASED ON TOTAL TEST SCORE - GRADE 8

LAB-Form A Raw Score	LAB-Form B Raw Score	MAC Raw Score	Percentile	NCE
138-139	138-139	182-199	99	99.0
136-137	136-137	178-181	98	93.3
133-135	133-135	174-177	97	89.6
132	132	173	96	86.9
130-131	130-131	171-172	95	84.6
128-129	128-129	168-170	93	81.1
125-127	125-127	165-167	92	79.6
123-124	123-124	162-164	90	77.0
121-122	121-122	159-161	88	74.7
120	120	158	87	73.7
119	119	157	86	72.8
118	118	156	83	70.1
117	117	155	82	69.3
116	116	153-154	81	68.5
115	115	152	80	67.7
114	114	151	78	66.3
113	113	149-150	77	65.6
112	112	148	76	64.9
111	111	147	75	64.2
109-110	109-110	144-146	74	63.5
108	108	143	72	62.3
107	107	142	71	61.7
106	106	141	69	60.4
105	105	139-140	67	59.3
104	104	138	64	57.5
103	103	137	63	57.0
102	102	136	61	55.9
100-101	100-101	133-135	59	54.8
99	99	132	56	53.2
98	98	131	54	52.1
97	97	129-130	53	51.6
96	96	128	52	51.1
95	95	127	51	50.5
92-94	93-94	124-126	48	48.9
91	92	123	46	47.9
89-90	90-91	121-122	44	46.8
88	89	119-120	43	46.3
86-87	87-88	117-118	42	45.8
85	86	116	41	45.2
84	85	114-115	40	44.7
82-83	83-84	112-113	38	43.6
81	82	110-111	37	43.0
80	81	109	33	40.7
79	80	107-108	30	39.0
77-78	78-79	105-106	29	38.3
75-76	76-77	103-104	28	37.7
74	75	102	27	37.1
73	74	100-101	26	36.5
72	73	99	25	35.8
70-71	71-72	96-98	24	35.1
69	70	95	23	34.4
66-68	67-69	91-94	22	33.7

TABLE B10
(continued)

FALL NORMS BASED ON TOTAL TEST SCORE - GRADE 8

LAB-Form A Raw Score	LAB-Form B Raw Score	MAC Raw Score	Percentile	NCE
65	66	90	21	33.0
59-64	60-65	83-89	20	32.3
		82	18	30.7
58	59	81	17	29.9
57	58	80	16	29.1
		79	15	28.2
56	57	78	14	27.2
55	56	77	12	25.3
51-54	52-55	72-76	10	23.0
49-50	50-51	70-71	9	21.8
48	48-49	68-69	8	20.4
45-47	45-47	64-67	7	18.9
44	44	63	6	17.3
39-43	39-43	56-62	5	15.4
37-38	37-38	54-55	3	10.4
36	36	53	2	6.7
1-35	1-35	1-52	1	1.0

WR/ckb:1/2980h

TABLE B11

FALL NORMS BASED ON TOTAL TEST SCORE - GRADE 9

LAB-Form A Raw Score	LAB-Form B Raw Score	MAC Raw Score	Percentile	NCE
125-139	126-139	168-199	99	99.0
124	125	167	98	93.3
123	124	166	97	89.6
122	123	164-165	95	84.6
121	122	163	94	82.7
118-120	119-121	159-162	93	81.1
116-117	117-118	157-158	92	79.6
115	116	155-156	91	78.2
114	115	154	90	77.0
113	114	153	88	74.7
112	113	151-152	86	72.8
110-111	111-112	148-150	85	71.8
109	110	147	84	70.9
108	109	146	83	70.1
107	108	145	81	68.5
106	107	143-144	80	67.7
104-105	106	142	79	67.0
102-103	104-105	139-141	76	64.9
101	103	138	74	63.5
100	102	137	72	62.3
99	101	135-136	70	61.0
98	100	134	69	60.4
96-97	98-99	131-133	68	59.9
95	97	130	66	58.7
94	96	128-129	65	58.1
90-93	93-95	124-127	62	56.4
89	92	123	61	55.9
88	91	122	58	54.2
87	90	120-121	57	53.7
85-86	88-89	117-119	56	53.2
84	87	116	53	51.6
82-83	86	115	52	51.1
81	85	114	48	48.9
80	84	112-113	47	48.4
78-79	82-83	110-111	45	47.4
77	81	108-109	44	46.8
76	80	107	43	46.3
74-75	78-79	104-106	42	45.8
72-73	76-77	102-103	40	44.7
71	75	100-101	39	44.1
70	74	99	38	43.6
69	73	97-98	34	41.3
68	72	96	33	40.7
67	71	94-95	32	40.1
65-66	69-70	92-93	30	39.0
63-64	67-68	90-91	28	37.7
62	66	88-89	27	37.1
61	65	87	26	36.5
60	64	86	25	35.8
59	63	84-85	24	35.1
58	62	83	23	34.4

TABLE B11
(continued)

FALL NORMS BASED ON TOTAL TEST SCORE - GRADE 9

LAB-Form A Raw Score	LAB-Form B Raw Score	MAC Raw Score	Percentile	NCE
57	61	82	22	33.7
56	60	80-81	21	33.0
55	59	79	19	31.5
54	58	77-78	18	30.7
53	56-57	75-76	17	29.9
52	55	73-74	16	29.1
51	54	72	15	28.2
50	53	71	13	26.3
47-49	50-52	67-70	12	25.3
46	49	65-66	11	24.2
45	47-48	63-64	10	23.0
44	46	61-62	8	20.4
43	45	60	7	18.9
41-42	43-44	58-59	6	17.3
40	42	56-57	5	15.4
34-39	34-41	45-55	4	13.1
31-33	31-33	42-44	3	10.4
26-30	26-30	37-41	2	6.7
1-25	1-25	1-36	1	1.0

WR/ckb:1/2977h

TABLE B12

FALL NORMS BASED ON TOTAL TEST SCORE - GRADE 10

LAB-Form A Raw Score	LAB-Form B Raw Score	MAC Raw Score	Percentile	NCE
133-139	134-139	176-199	99	99.0
127-132	128-133	169-175	98	93.3
126	127	167-168	97	89.6
122-125	123-126	162-166	96	86.9
121	122	161	93	81.1
120	121	159-160	92	79.6
118-119	119-120	157-158	91	78.2
117	118	156	89	75.8
116	117	154-155	88	74.7
115	116	153	87	73.7
113-114	114-115	151-152	86	72.8
110-112	111-113	146-150	85	71.8
109	110	145	84	70.9
108	109	144	81	68.5
106-107	108	143	80	67.7
		142	79	67.0
105	107	141	76	64.9
104	106	140	71	61.7
103	105	139	69	60.4
102	104	137-138	68	59.9
101	103	136	67	59.3
100	102	135	65	58.1
99	101	134	64	57.5
		133	62	56.4
98	100	132	61	55.9
97	99	131	60	55.3
96	98	130	59	54.8
94-95	96-97	127-129	57	53.7
93	95	126	55	52.6
92	94	125	54	52.1
90-91	92-93	122-124	52	51.1
89	91	121	50	50.0
88	90	120	49	49.5
86-87	89	118-119	48	48.9
85	88	117	46	47.9
84	87	116	44	46.8
83	86	114-115	43	46.3
82	85	113	41	45.2
80-81	84	112	39	44.1
79	83	110-111	38	43.6
78	82	109	37	43.0
77	81	108	35	41.9
76	80	106-107	34	41.3
75	79	105	32	40.1
73-74	77-78	103-104	31	39.6
72	76	102	30	39.0
71	75	100-101	28	37.7
70	74	99	27	37.1
69	73	98	26	36.5
68	72	97	24	35.1

TABLE B12
(continued)

FALL NORMS BASED ON TOTAL TEST SCORE - GRADE 10

LAB-Form A Raw Score	LAB-Form B Raw Score	MAC Raw Score	Percentile	NCE
67	71	95-96	23	34.4
66	70	94	22	33.7
62-65	66-69	89-93	20	32.3
		88	19	31.5
61	65	87	18	30.7
60	64	86	17	29.9
59	63	84-85	16	29.1
57-58	61-62	82-83	15	28.2
54-56	57-60	78-81	14	27.2
51-53	54-56	73-77	13	26.3
50	53	72	12	25.3
47-49	50-52	68-71	10	23.0
46	49	67	9	21.8
44-45	47-48	64-66	8	20.4
43	46	63	7	18.9
40-42	42-45	58-62	6	17.3
36-39	39-41	54-57	5	15.4
32-35	34-38	48-53	4	13.1
29-31	30-33	43-47	3	10.4
22-28	23-29	38-42	2	6.7
1-21	1-22	1-37	1	1.0

WR/ckb:1/2981h

TABLE B13

FALL NORMS BASED ON TOTAL TEST SCORE - GRADE 11

LAB-Form A Raw Score	LAB-Form B Raw Score	MAC Raw Score	Percentile	NCE
128-139	129-139	173-199	99	99.0
127	128	171-172	98	93.3
124-126	125-127	167-170	95	84.6
123	124	165-166	94	82.7
122	123	164	92	79.6
121	122	163	91	78.2
119-120	120-121	160-162	89	75.8
118	119	159	87	73.7
117	118	158	85	71.8
116	117	156-157	83	70.1
115	116	155	81	68.5
114	115	154	78	66.3
113	114	152-153	77	65.6
112	113	151	75	64.2
111	112	150	72	62.3
110	111	148-149	70	61.0
109	110	147	68	59.9
108	109	146	67	59.3
107	108	144-145	66	58.7
106			64	57.5
105	107	143	62	56.4
		142	61	55.9
103-104	105-106	140-141	60	55.3
102	104	139	59	54.8
101	103	137-138	58	54.2
100	102	136	56	53.2
99	101	135	55	52.6
98	100	133-134	54	52.1
97	99	132	53	51.6
96	98	131	52	51.1
95	97	129-130	51	50.5
94	96	128	49	49.5
93	95	127	48	48.9
92	94	125-126	47	48.4
91	93	124	46	47.9
90	92	123	45	47.4
89	91	121-122	44	46.8
88			43	46.3
87	90	120	41	45.2
84-86	87-89	116-119	39	44.1
		115	38	43.6
82-83	85-86	113-114	36	42.5
81	84	112	35	41.9
79-80	83	110-111	32	40.1
78	82	109	31	39.6
77	81	108	29	38.3
76	80	106-107	28	37.7
75	79	105	27	37.1
74	78	104	24	35.1
73	77	102-103	23	34.4

TABLE B13
(continued)

FALL NORMS BASED ON TOTAL TEST SCORE - GRADE 11

LAB-Form A Raw Score	LAB-Form B Raw Score	MAC Raw Score	Percentile	NCE
71-72	75-76	99-101	22	33.7
70	74	98	21	33.0
67-69	71-73	94-97	18	30.7
65-66	69-70	91-93	17	29.9
64	68	90	16	29.1
63	67	88-89	15	28.2
62	66	87	14	27.2
60-61	64-65	85-86	13	26.3
59	63	83-84	12	25.3
58	62	81-82	11	24.2
57	61	80	10	23.0
56	60	79	9	21.8
51-55	55-59	72-78	8	20.4
50	54	70-71	7	18.9
42-49	44-53	59-69	6	17.3
40-41	42-43	55-58	5	15.4
38-39	40-41	53-54	4	13.1
35-37	37-39	48-52	3	10.4
29-34	31-36	41-47	2	6.7
1-28	1-30	1-40	1	1.0

WR/lp:1/2985h

TABLE B14

FALL NORMS BASED ON TOTAL TEST SCORE - GRADE 12

LAB-Form A Raw Score	LAB-Form B Raw Score	MAC Raw Score	Percentile	NCE
139	139	186-199	99	99.0
133-138	134-138	179-185	98	93.3
132	133	178	97	89.6
131	132	177	96	86.9
129-130	130-131	174-176	94	82.7
128	129	173	93	81.1
127	128	172	92	79.6
126	127	170-171	91	78.2
125	126	169	89	75.8
124	125	167-168	88	74.7
123	124	166	86	72.8
122	123	165	83	70.1
121	122	164	81	68.5
119-120	120-121	162-163	80	67.7
118	119	160-161	78	66.3
117	118	159	73	62.9
116	117	158	70	61.0
115	116	156-157	69	60.4
114	115	155	65	58.1
113	114	154	62	56.4
110-112	112-113	151-153	60	55.3
108-109	110-111	149-150	58	54.2
107	109	148	56	53.2
106	108	146-147	55	52.6
105	107	145	52	51.1
104	106	143-144	49	49.5
101-103	103-105	140-142	47	48.4
98-100	101-102	137-139	44	46.8
97	100	136	43	46.3
96	99	135	42	45.8
94-95	97-98	132-134	40	44.7
93	96	131	39	44.1
91-92	94-95	129-130	37	43.0
90	93	127-128	35	41.9
88-89	91-92	125-126	34	41.3
		124	32	40.1
87	90	123	30	39.0
86	89	122	29	38.3
85	88	121	28	37.7
82-84	86-87	118-120	26	36.5
80-81	84-85	116-117	25	35.8
79	83	115	24	35.1
78	82	113-114	22	33.7
77	81	111-112	20	32.3
72-76	76-80	106-110	17	29.9
71	75	104-105	16	29.1
70	74	103	15	28.2
68-69	72-73	101-102	14	27.2
66-67	70-71	98-100	13	26.3
64-65	68-69	96-97	12	25.3
61-63	65-67	92-95	11	24.2

TABLE B14
(continued)

FALL NORMS BASED ON TOTAL TEST SCORE - GRADE 12

LAB-Form A Raw Score	LAB-Form B Raw Score	MAC Raw Score	Percentile	NCE
58-60	62-64	88-91	9	21.8
56-57	60-61	85-87	8	20.4
55	59	84	7	18.9
53-54	57-58	81-83	6	17.3
50-52	53-56	76-80	5	15.4
45-49	48-52	69-75	4	13.1
36-44	39-47	60-68	3	10.4
25-35	28-38	47-59	2	6.7
1-24	1-27	1-46	1	1.0

WR/lp:1/2990h

TABLE B15

SPRING NORMS - GRADE K

KINDERGARTENERS WHO TAKE THE MAC OR THE LAB LISTENING/SPEAKING SUBTEST ONLY

LAB-Form A Raw Score	LAB-Form B Raw Score	MAC Raw Score	Percentile	NCE
30	30	119-126	99	99.0
		116-118	98	93.3
		115	97	89.6
	29	113-114	96	86.9
		112	95	84.6
		111	94	82.7
		110	93	81.1
29	28	109	92	79.6
		108	90	77.0
		107	89	75.8
28	27	105-106	87	73.7
		104	86	72.8
		103	85	71.8
	26	102	84	70.9
		101	83	70.1
		100	82	69.3
		99	79	67.0
27	25	98	77	65.6
		97	76	64.9
		96	74	63.5
		95	72	62.3
26	24	94	70	61.0
		93	68	59.9
		92	65	58.1
25	23	91	63	57.0
		90	60	55.3
		89	57	53.7
		88	55	52.6
24	22	87	53	51.6
		86	52	51.1
		85	51	50.5
		84	50	50.0
23	21	83	49	49.5
		82	48	48.9
		81	46	47.9
22	20	80	44	46.8
		79	42	45.8
		78	40	44.7
		77	37	43.0
21	19	76	36	42.5
		75	34	41.3
		74	32	40.1
		73	30	39.0
20	18	72	29	38.3
		71	27	37.1
		70	26	36.5
19	17	68-69	24	35.1
		67	23	34.4
		66	22	33.7

TABLE B15
(continued)

SPRING NORMS - GRADE K

KINDERGARTENERS WHO TAKE THE MAC OR THE LAB LISTENING/SPEAKING SUBTEST ONLY

LAB-Form A Raw Score	LAB-Form B Raw Score	MAC Raw Score	Percentile	NCE
18	16	65	21	33.0
		64	20	32.3
		62-63	18	30.7
17	15	61	17	29.9
		59-60	16	29.1
16	14	57-58	15	28.2
15		56	14	27.2
14	13	54-55	13	26.3
13		51-53	12	25.3
12	12	49-50	11	24.2
		48	10	23.0
		47	9	21.8
11	11	45-46	8	20.4
10	10	43-44	7	18.9
		40-42	6	17.3
9	9	39	5	15.4
8	8	35-38	3	10.4
7	7	31-34	2	6.7
1-6	1-6	1-30	1	1.0

WR/ckb:1/2987h

TABLE B16

SPRING NORMS - GRADE K

KINDERGARTENERS WHO TAKE THE MAC OR THE LAB LISTENING/SPEAKING AND BEGINNING READING SUBTESTS

LAB-Form A Raw Score	LAB-Form B Raw Score	MAC Raw Score	Percentile	NCE
56-58	56-58	121-126	99	99.0
54-55	54-55	117-120	98	93.3
		116	97	89.6
53	53	115	96	86.9
		114	95	84.6
52	52	112-113	94	82.7
		111	92	79.6
	51	110	90	77.0
		109	89	75.8
51	50	108	87	73.7
		107	86	72.8
50	49	106	83	70.1
		105	82	69.3
49	48	104	81	68.5
48	47	102-103	80	67.7
		101	79	67.0
		100	78	66.3
47	46	99	75	64.2
		98	74	63.5
46	45	97	73	62.9
		96	72	62.3
45	44	95	70	61.0
		94	69	60.4
44	43	93	67	59.3
		92	64	57.5
43	42	91	61	55.9
		90	58	54.2
42	41	88-89	54	52.1
		87	53	51.6
41	40	86	52	51.1
		85	51	50.5
40	39	84	50	50.0
		83	49	49.5
39	38	82	48	48.9
		81	45	47.4
38	37	80	42	45.8
		79	41	45.2
37	36	78	39	44.1
		77	36	42.5
36	35	76	34	41.3
		75	31	39.6
35	34	74	27	37.1
		73	26	36.5
		72	24	35.1
34	33	71	23	34.4
		70	22	33.7
33	32	68-69	20	32.3

TABLE B16
(continued)

SPRING NORMS - GRADE K

KINDERGARTENERS WHO TAKE THE MAC OR THE LAB
LISTENING/SPEAKING AND BEGINNING READING SUBTESTS

LAB-Form A Raw Score	LAB-Form B Raw Score	MAC Raw Score	Percentile	NCE
32	31	67	19	31.5
		66	17	29.9
30-31	29-30	63-65	16	29.1
29		62	14	27.2
28	28	59-61	13	26.3
27	27	57-58	12	25.3
26	26	56	11	24.2
		55	9	21.8
25	25	54	8	20.4
		53	7	18.9
24	24	51-52	6	17.3
22-23	22-23	46-50	5	15.4
19-21	19-21	40-45	4	13.1
18	18	38-39	2	6.7
1-17	1-17	1-37	1	1.0

WR/lp:1/2993h

TABLE B17

SPRING NORMS - GRADE 1

FIRST GRADERS WHO TAKE THE MAC OR THE LAB LISTENING/SPEAKING AND READING/WRITING SUBTESTS

LAB-Form A Raw Score	LAB-Form B Raw Score	MAC Raw Score	Percentile	NCE
57-58	57-58	122-126	99	99.0
		121	98	93.3
56	56	119-120	97	89.6
55	55	118	96	86.9
		117	95	84.6
54	54	116	94	82.7
		115	93	81.1
	53	114	90	77.0
		113	89	75.8
53	52	112	88	74.7
		111	86	72.8
52	51	110	84	70.9
		109	82	69.3
51	50	108	80	67.7
		107	77	65.6
50	49	106	73	62.9
		105	69	60.4
49	48	104	67	59.3
		103	65	58.1
48	47	102	62	56.4
		101	61	55.9
47	46	100	58	54.2
		99	53	51.6
46	45	98	51	50.5
		97	50	50.0
45	44	96	46	47.9
		95	44	46.8
44	43	94	41	45.2
		93	39	44.1
43	42	92	37	43.0
		91	36	42.5
42	41	90	34	41.3
		89	33	40.7
41	40	88	32	40.1
40	39	87	29	38.3
		86	27	37.1
39	38	85	26	36.5
		84	23	34.4
38	37	83	21	33.0
37	36	81-82	20	32.3
		80	19	31.5
36	35	79	17	29.9
		78	16	29.1
35	34	76-77	15	28.2
34	33	75	14	27.2
33		74	13	26.3
32	32	73	11	24.2

TABLE B17
(continued)

SPRING NORMS - GRADE 1

FIRST GRADERS WHO TAKE THE MAC OR THE LAB
LISTENING/SPEAKING AND READING/WRITING SUBTESTS

LAB-Form A Raw Score	LAB-Form B Raw Score	MAC Raw Score	Percentile	NCE
31	31	71-72	10	23.0
		70	9	21.8
30	30	68-69	8	20.4
29	29	66-67	7	18.9
27-28	27-28	63-65	5	15.4
26	26	60-62	4	13.1
24-25	24-25	56-59	3	10.4
18-23	18-23	45-55	2	6.7
1-17	1-17	1-44	1	1.0

WR/ckb:1/2994h

TABLE B18

SPRING NORMS BASED ON TOTAL TEST SCORE - GRADE 2

LAB-Form A Raw Score	LAB-Form B Raw Score	MAC Raw Score	Percentile	NCE
58	58	166-177	99	99.0
		164-165	98	93.3
57	57	162-163	97	89.6
		161	96	86.9
		159-160	95	84.6
		158	94	82.7
		157	93	81.1
		156	92	79.6
		155	91	78.2
		154	90	77.0
		153	89	75.8
		152	88	74.7
56	56	151	87	73.7
		150	86	72.8
		149	85	71.8
		148	84	70.9
		147	83	70.1
		146	82	69.3
		145	81	68.5
		144	80	67.7
		143	79	67.0
		142	78	66.3
		141	77	65.6
55	55	140	75	64.2
		139	73	62.9
		138	71	61.7
		137	69	60.4
		136	67	59.3
54	54	135	65	58.1
		134	63	57.0
		133	61	55.9
		132	59	54.8
53	53	131	57	53.7
		130	55	52.6
		129	53	51.6
		128	51	50.5
		127	50	50.0
		126	48	48.9
		125	46	47.9
51-52	52	124	44	46.8
		123	42	45.8
		122	41	45.2
		121	40	44.7
		120	39	44.1
50	51	119	38	43.6
		118	36	42.5
		117	35	41.9
		116	34	41.3
49	50	115	33	40.7
		114	32	40.1
		113	31	39.6

TABLE B18
(continued)

SPRING NORMS BASED ON TOTAL TEST SCORE - GRADE 2

LAB-Form A Raw Score	LAB-Form B Raw Score	MAC Raw Score	Percentile	NCE
48	49	112	30	39.0
		111	29	38.3
		110	28	37.7
47	48	109	27	37.1
		108	26	36.5
46	47	107	24	35.1
		106	23	34.4
		105	22	33.7
45	46	104	21	33.0
		103	20	32.3
44	45	102	19	31.5
		101	18	30.7
		100	17	29.9
		99	16	29.1
43	44	98	15	28.2
42	43	96-97	14	27.2
		95	13	26.3
41	42	93-94	12	25.3
		92	11	24.2
40	41	91	10	23.0
	40	89-90	9	21.8
39	39	87-88	8	20.4
		86	7	18.9
37-38	37-38	83-85	6	17.3
35-36	35-36	80-82	5	15.4
34	34	77-79	4	13.1
33	33	75-76	3	10.4
30-32	30-32	66-74	2	6.7
1-29	1-29	1-65	1	1.0

WR/lp:1/2995h

TABLE B19

SPRING NORMS BASED ON TOTAL TEST SCORE - GRADE 3

LAB-Form A Raw Score	LAB-Form B Raw Score	MAC Raw Score	Percentile	NCE
111-112	111-112	166-177	99	99.0
108-110	109-110	163-165	97	89.6
106-107	108	162	96	86.9
104-105	106-107	160-161	94	82.7
103	105	159	93	81.1
102	104	157-158	92	79.6
101	103	156	91	78.2
100	102	155	90	77.0
99	101	154	89	75.8
98	100	153	87	73.7
97	99	152	86	72.8
96	98	151	85	71.8
95		150	83	70.1
94	97	149	79	67.0
93	96	148	77	65.6
92	95	147	76	64.9
91	94	146	73	62.9
	93	145	72	62.3
90	92	144	71	61.7
		143	68	59.9
89	91	142	65	58.1
88	90	141	63	57.0
87	89	140	62	56.4
86	88	139	58	54.2
85	87	138	55	52.6
84	86	137	53	51.6
		136	50	50.0
	85	135	48	48.9
83	84	134	47	48.4
82	83	133	44	46.8
81	82	132	43	46.3
80	81	131	42	45.8
79	80	130	41	45.2
78	79	129	40	44.7
		128	39	44.1
77	78	127	38	43.6
76	77	126	36	42.5
75	76	125	35	41.9
74	75	124	34	41.3
72-73	73-74	122-123	33	40.7
71	72	121	32	40.1
70	71	119-120	30	39.0
69	70	118	29	38.3
68	69	117	26	36.5
67	68	116	25	35.8
66	67	114-115	24	35.1
65	66	113	23	34.4
63-64	64-65	111-112	22	33.7
62	63	110	21	33.0
60-61	61-62	108-109	20	32.3
		107	19	31.5

TABLE B19
(continued)

SPRING NORMS BASED ON TOTAL TEST SCORE - GRADE 3

LAB-Form A Raw Score	LAB-Form B Raw Score	MAC Raw Score	Percentile	NCE
59	60	106	18	30.7
58	59	105	17	29.9
55-57	56-58	102-104	16	29.1
54	55	101	15	28.2
53	54	99-100	13	26.3
52	53	98	12	25.3
49-51	50-52	95-97	11	24.2
48	49	94	10	23.0
47	48	93	9	21.8
46	47	91-92	8	20.4
43-45	43-46	87-90	7	18.9
40-42	40-42	83-86	6	17.3
38-39	38-39	81-82	5	15.4
34-37	35-37	77-80	4	13.1
28-33	28-34	69-76	3	10.4
27	27	68	2	6.7
1-26	1-26	1-67	1	1.0

WR/lp:1/2996h

TABLE B20

SPRING NORMS BASED ON TOTAL TEST SCORE - GRADE 4

LAB-Form A Raw Score	LAB-Form B Raw Score	MAC Raw Score	Percentile	NCE
110-112	111-112	182-209	99	99.0
109	110	179-181	98	93.3
108	109	176-178	97	89.6
		173-175	96	86.9
107	108	171-172	95	84.6
		170	94	82.7
106	107	168-169	93	81.1
		166-167	92	79.6
105	106	164-165	91	78.2
		163	90	77.0
		162	89	75.8
		160-161	88	74.7
104	105	159	87	73.7
		158	86	72.8
		157	85	71.8
102-103	104	156	84	70.9
		155	83	70.1
		154	82	69.3
101	103	153	81	68.5
		152	80	67.7
		151	79	67.0
99-100	102	150	77	65.6
		149	76	64.9
98	101	148	74	63.5
		147	72	62.3
97	100	146	71	61.7
96	99	145	70	61.0
		144	69	60.4
95	98	143	67	59.3
		142	65	58.1
		141	64	57.5
94	97	140	63	57.0
93	96	139	62	56.4
		138	60	55.3
92	95	137	59	54.8
		136	57	53.7
91	94	135	55	52.6
90	93	134	53	51.6
		133	51	50.5
89	92	132	50	50.0
88	91	131	49	49.5
		130	48	48.9
	90	129	46	47.9
87	89	128	45	47.4
86	88	127	43	46.3
85	87	126	41	45.2
84	86	125	40	44.7
83	85	124	38	43.6
82	84	123	37	43.0
		122	35	41.9
		121	34	41.3

TABLE B20
(continued)

SPRING NORMS BASED ON TOTAL TEST SCORE - GRADE 4

LAB-Form A Raw Score	LAB-Form B Raw Score	MAC Raw Score	Percentile	NCE
81	83	120	33	40.7
80	82	119	32	40.1
79	80-81	118	30	39.0
78	79	116-117	29	38.3
77	78	114-115	28	37.7
76	77	112-113	27	37.1
75	76	111	26	36.5
74	75	109-110	25	35.8
73	74	107-108	24	35.1
72	73	105-106	23	34.4
71	72	103-104	22	33.7
70	71	101-102	21	33.0
69	70	99-100	20	32.3
67-68	68-69	98	19	31.5
66	67	95-97	18	30.7
65	66	93-94	17	29.9
63-64	64-65	91-92	16	29.1
62	63	89-90	15	28.2
60-61	61-62	87-88	14	27.2
58-59	59-60	85-86	13	26.3
56-57	57-58	83-84	12	25.3
55	56	81-82	11	24.2
54	55	77-80	10	23.0
53	54	74-76	9	21.8
51-52	52-53	71-73	8	20.4
49-50	50-51	68-70	7	18.9
47-48	48-49	64-67	6	17.3
46	47	62-63	5	15.4
44-45	45-46	58-61	4	13.1
41-43	42-44	53-57	3	10.4
36-40	36-41	48-52	2	6.7
1-35	1-35	1-47	1	1.0

WR/kv:1/2997h

TABLE B21

SPRING NORMS BASED ON TOTAL TEST SCORE - GRADE 5

LAB-Form A Raw Score	LAB-Form B Raw Score	MAC Raw Score	Percentile	NCE
111-112	111-112	191-209	99	99.0
109-110	110	188-190	98	93.3
108	109	186-187	97	89.6
		184-185	96	86.9
		182-183	95	84.6
107	108	180-181	94	82.7
		179	93	81.1
		178	92	79.6
		177	91	78.2
106	107	176	90	77.0
		174-175	89	75.8
		173	88	74.7
		172	87	73.7
105	106	171	86	72.8
		169-170	85	71.8
		168	84	70.9
104	105	167	83	70.1
		166	82	69.3
		165	81	68.5
		164	80	67.7
		163	79	67.0
102-103	104	162	78	66.3
		161	77	65.6
101	103	160	75	64.2
		159	74	63.5
		158	73	62.9
		157	72	62.3
100	102	156	71	61.7
		155	70	61.0
		154	69	60.4
99	101	153	68	59.9
		152	67	59.3
		151	66	58.7
97-98	100	150	65	58.1
		149	64	57.5
96	99	147-148	63	57.0
		146	62	56.4
		145	61	55.9
95	98	144	60	55.3
		143	59	54.8
		141-142	58	54.2
94	97	140	57	53.7
		139	56	53.2
93	96	138	55	52.6
		137	54	52.1
92	95	135-136	53	51.6
		134	52	51.1
91	94	133	51	50.5
		132	50	50.0

TABLE B21
(continued)

SPRING NORMS BASED ON TOTAL TEST SCORE - GRADE 5

LAB-Form A Raw Score	LAB-Form B Raw Score	MAC Raw Score	Percentile	NCE
90	93	131	49	49.5
		129-130	48	48.9
89	92	128	47	48.4
		127	46	47.9
88	91	125-126	45	47.4
87	90	124	44	46.8
86	89	122-123	43	46.3
85	88	121	42	45.8
		120	41	45.2
84	87	119	40	44.7
	86	118	39	44.1
83	85	117	38	43.6
82	84	115-116	37	43.0
81	83	114	36	42.5
80	82	113	35	41.9
79	81	112	34	41.3
78	80	111	33	40.7
76-77	78-79	110	32	40.1
75	77	109	31	39.6
	76	107-108	30	39.0
74	75	106	29	38.3
73	74	105	28	37.7
72	73	104	27	37.1
71	72	103	26	36.5
70	71	101-102	25	35.8
69	70	99-100	24	35.1
67-68	68-69	98	23	34.4
66	67	96-97	22	33.7
65	66	95	21	33.0
64	65	92-94	20	32.3
63	64	91	19	31.5
62	63	89-90	18	30.7
61	62	87-88	17	29.9
60	61	85-86	16	29.1
58-59	59-60	83-84	15	28.2
56-57	57-58	81-82	14	27.2
54-55	55-56	80	13	26.3
53	54	78-79	12	25.3
52	53	75-77	11	24.2
50-51	51-52	73-74	10	23.0
48-49	49-50	71-72	9	21.8
46-47	47-48	68-70	8	20.4
44-45	45-46	65-67	7	18.9
42-43	43-44	62-64	6	17.3
41	42	60-61	5	15.4
39-40	40-41	57-59	4	13.1
37-38	38-39	54-56	3	10.4
34-36	35-37	51-53	2	6.7
1-33	1-34	1-50	1	1.0

WR/lp:1/2999h

TABLE B22

SPRING NORMS BASED ON TOTAL TEST SCORE - GRADE 6

LAB-Form A Raw Score	LAB-Form B Raw Score	MAC Raw Score	Percentile	NCE
131-139	132-139	175-199	99	99.0
129-130	129-131	172-174	98	93.3
		171	96	86.9
128	128	170	95	84.6
126-127	126-127	168-169	94	82.7
125	125	166-167	93	81.1
123-124	123-124	164-165	92	79.6
		163	91	78.2
121-122	121-122	161-162	90	77.0
120	120	160	89	75.8
119	119	158-159	88	74.7
118	118	157	86	72.8
117	117	156	85	71.8
116	116	154-155	83	70.1
115	115	153	81	68.5
114	114	152	79	67.0
113	113	151	77	65.6
		150	76	64.9
112	112	149	74	63.5
111	111	148	72	62.3
110	110	147	71	61.7
		146	69	60.4
109	109	145	68	59.9
108	108	144	67	59.3
107	107	143	66	58.7
		142	65	58.1
106	106	141	63	57.0
105	105	140	62	56.4
104	104	139	61	55.9
		138	60	55.3
103	103	137	58	54.2
102	102	136	57	53.7
101	101	135	56	53.2
		134	55	52.6
100	100	133	52	51.1
99	99	132	50	50.0
98	98	131	48	48.9
94-97	94-97	126-130	47	48.4
		125	45	47.4
91-93	92-93	123-124	44	46.8
90	91	122	43	46.3
		121	42	45.8
88-89	89-90	119-120	41	45.2
87	88	117-118	40	44.7
85-86	86-87	115-116	39	44.1
84	85	114	38	43.6
		113	37	43.0
83	84	112	36	42.5
82	83	111	35	41.9
79-81	80-82	107-110	34	41.3
77-78	78-79	104-106	33	40.7
75-76	76-77	102-103	31	39.6

TABLE B22
(continued)

SPRING NORMS BASED ON TOTAL TEST SCORE - GRADE 6

LAB-Form A Raw Score	LAB-Form B Raw Score	MAC Raw Score	Percentile	NCE
74	75	100-101	30	39.0
72-73	73-74	97-99	29	38.3
71	72	96	28	37.7
69-70	70-71	94-95	27	37.1
68	69	92-93	26	36.5
67	68	91	25	35.8
66	67	90	24	35.1
63-65	64-66	86-89	23	34.4
62	63	85	22	33.7
		84	21	33.0
61	62	83	19	31.5
59-60	60-61	81-82	18	30.7
		80	17	29.9
58	59	79	15	28.2
55-57	56-58	75-78	14	27.2
54	55	74	12	25.3
53	54	72-73	11	24.2
50-52	51-53	69-71	10	23.0
48-49	49-50	66-68	9	21.8
45-47	46-48	62-65	8	20.4
43-44	44-45	60-61	7	18.9
		59	6	17.3
41-42	42-43	57-58	5	15.4
38-40	39-41	53-56	4	13.1
35-37	35-38	48-52	3	10.4
32-34	32-34	43-47	2	6.7
1-31	1-31	1-42	1	1.0

WR/ckb:1/3000h

TABLE B23

SPRING NORMS BASED ON TOTAL TEST SCORE - GRADE 7

LAB-Form A Raw Score	LAB-Form B Raw Score	MAC Raw Score	Percentile	NCE
137-139	138-139	181-199	99	99.0
135-136	136-137	178-180	98	93.3
133-134	133-135	174-177	97	89.6
128-132	128-132	168-173	96	86.9
127	127	167	95	84.6
125-126	125-126	165-166	94	82.7
		164	93	81.1
123-124	123-124	162-163	92	79.6
121-122	121-122	160-161	91	78.2
117-120	117-120	154-159	89	75.8
116	116	153	86	72.8
114-115	114-115	151-152	84	70.9
		150	81	68.5
113	113	149	80	67.7
112	112	148	79	67.0
111	111	147	78	66.3
110	110	146	77	65.6
		145	76	64.9
109	109	144	72	62.3
108	108	143	71	61.7
107	107	142	70	61.0
106	106	141	69	60.4
		140	68	59.9
105	105	139	65	58.1
104	104	138	64	57.5
103	103	137	63	57.0
102	102	135-136	62	56.4
101	101	134	61	55.9
100	100	133	60	55.3
99	99	132	59	54.8
98	98	131	58	54.2
		130	55	52.6
96-97	96-97	128-129	53	51.6
95	95	127	52	51.1
94		126	49	49.5
92-93	93-94	124-125	48	48.9
91	92	123	46	47.9
90	91	121-122	44	46.8
89	90	120	43	46.3
88	89	119	42	45.8
87	88	118	41	45.2
85-86	86-87	115-117	40	44.7
84	85	114	38	43.6
83	84	113	36	42.5
82	83	111-112	35	41.9
80-81	81-82	109-110	33	40.7
79	80	108	31	39.6
78	79	107	30	39.0
76-77	77-78	104-106	28	37.7
75	76	103	26	36.5
74	75	102	25	35.8

TABLE B23
(continued)

SPRING NORMS BASED ON TOTAL TEST SCORE - GRADE 7

LAB-Form A Raw Score	LAB-Form B Raw Score	MAC Raw Score	Percentile	NCE
72-73	73-74	99-101	24	35.1
71	72	98	23	34.4
70	71	97	22	33.7
		96	21	33.0
69	70	95	20	32.3
68	69	94	18	30.7
67	68	93	17	29.9
66	67	91-92	16	29.1
63-65	64-66	87-90	15	28.2
55-62	56-63	77-86	14	27.2
51-54	52-55	73-76	13	26.3
		72	12	25.3
47-50	48-51	68-71	11	24.2
		67	10	23.0
45-46	46-47	65-66	9	21.8
41-44	42-45	60-64	8	20.4
39-40	40-41	58-59	7	18.9
38	39	56-57	6	17.3
36-37	37-38	53-55	5	15.4
29-35	30-36	45-52	4	13.1
28	29	44	3	10.4
22-27	22-28	35-43	2	6.7
1-21	1-21	1-34	1	1.0

WR/lp:1/3001h

TABLE B24

SPRING NORMS BASED ON TOTAL TEST SCORE - GRADE 8

LAB-Form A Raw Score	LAB-Form B Raw Score	MAC Raw Score	Percentile	NCE
139	139	184-199	99	99.0
137-138	137-138	180-183	98	93.3
134-136	134-136	176-179	97	89.6
133	133	174-175	96	86.9
131-132	131-132	172-173	95	84.6
130	130	171	93	81.1
128-129	128-129	168-170	92	79.6
125-127	125-127	165-167	90	77.0
		164	89	75.8
123-124	123-124	162-163	88	74.7
122	122	160-161	87	73.7
121	121	159	86	72.8
120	120	158	85	71.8
119	119	157	83	70.1
118	118	156	82	69.3
117	117	155	81	68.5
		154	80	67.7
115-116	115-116	152-153	78	66.3
114	114	151	77	65.6
113	113	149-150	76	64.9
112	112	148	75	64.2
111	111	147	74	63.5
110	110	145-146	72	62.3
109	109	144	71	61.7
108	108	143	69	60.4
106-107	106-107	141-142	67	59.3
		140	65	58.1
105	105	139	64	57.5
104	104	138	63	57.0
103	103	137	61	55.9
102	102	136	59	54.8
		135	58	54.2
100-101	100-101	133-134	56	53.2
99	99	132	54	52.1
98	98	131	53	51.6
97	97	129-130	52	51.1
96	96	128	51	50.5
94-95	94-95	126-127	48	48.9
93		125	47	48.4
92	93	124	46	47.9
90-91	91-92	122-123	44	46.8
89	90	121	43	46.3
87-88	88-89	118-120	42	45.8
86	87	117	41	45.2
85	86	116	40	44.7
		115	39	44.1
83-84	84-85	113-114	38	43.6
82	83	112	37	43.0
		111	36	42.5
81	82	110	33	40.7
80	81	109	30	39.0

TABLE B24
(continued)

SPRING NORMS BASED ON TOTAL TEST SCORE - GRADE 8

LAB-Form A Raw Score	LAB-Form B Raw Score	MAC Raw Score	Percentile	NCE
78-79	79-80	106-108	29	38.3
76-77	77-78	104-105	28	37.7
75	76	103	27	37.1
74	75	102	26	36.5
73	74	100-101	25	35.8
71-72	72-73	98-99	24	35.1
70	71	96-97	23	34.4
68-69	69-70	94-95	22	33.7
67	68	92-93	21	33.0
62-66	63-67	87-91	20	32.3
		86	18	30.7
61	62	85	17	29.9
59-60	60-61	83-84	16	29.1
		82	15	28.2
58	59	81	14	27.2
57	58	80	12	25.3
52-56	53-57	74-79	10	23.0
50-51	51-52	71-73	9	21.8
49	49-50	69-70	8	20.4
46-48	46-48	65-68	7	18.9
45	45	64	6	17.3
40-44	40-44	57-63	5	15.4
38-39	38-39	55-56	3	10.4
37	37	54	2	6.7
1-36	1-36	1-53	1	1.0

WR/lp:1/2945h

TABLE B25

SPRING NORMS BASED ON TOTAL TEST SCORE - GRADE 9

LAB-Form A Raw Score	LAB-Form B Raw Score	MAC Raw Score	Percentile	NCE
132-139	132-139	177-199	99	99.0
129-131	130-131	174-176	98	93.3
128	129	173	97	89.6
		172	96	86.9
126-127	127-128	170-171	95	84.6
125	126	168-169	94	82.7
123-124	124-125	166-167	93	81.1
122	123	164-165	92	79.6
121	122	163	91	78.2
119-120	120-121	161-162	90	77.0
		160	89	75.8
118	119	159	88	74.7
117	118	158	86	72.8
115-116	116-117	155-157	85	71.8
114	115	154	84	70.9
113	114	153	83	70.1
		152	82	69.3
112	113	151	81	68.5
111	112	150	80	67.7
110	111	149	79	67.0
		148	78	66.3
108-109	109-110	146-147	76	64.9
107	108	145	74	63.5
106	107	143-144	72	62.3
104-105	106	142	70	61.0
103	105	140-141	69	60.4
102	104	139	68	59.9
101	103	138	66	58.7
100	102	137	65	58.1
		136	63	57.0
98-99	100-101	134-135	62	56.4
97	99	133	61	55.9
		132	60	55.3
96	98	131	58	54.2
95	97	130	57	53.7
		129	56	53.2
94	96	128	53	51.6
93	95	127	52	51.1
92	94	126	51	50.5
91		125	49	49.5
90	93	124	48	48.9
89	92	123	47	48.4
88	91	122	45	47.4
		121	44	46.8
87	90	120	43	46.3
85-86	88-89	117-119	42	45.8
82-84	86-87	115-116	40	44.7
81	85	114	39	44.1
80	84	112-113	38	43.6
79	83	111	37	43.0
78	82	110	36	42.5
77	81	108-109	34	41.3

TABLE B25
(continued)

SPRING NORMS BASED ON TOTAL TEST SCORE - GRADE 9

LAB-Form A Raw Score	LAB-Form B Raw Score	MAC Raw Score	Percentile	NCE
76	80	107	33	40.7
75	79	106	32	40.1
		105	31	39.6
72-74	76-78	102-104	30	39.0
		101	29	38.3
71	75	100	28	37.7
70	74	99	27	37.1
69	73	97-98	26	36.5
68	72	96	25	35.8
66-67	70-71	93-95	24	35.1
65	69	92	23	34.4
63-64	67-68	90-91	22	33.7
		89	21	33.0
62	66	88	19	31.5
61	65	87	18	30.7
60	64	86	17	29.9
59	63	84-85	16	29.1
57-58	61-62	82-83	15	28.2
		81	14	27.2
56	60	80	13	26.3
54-55	58-59	77-79	12	25.3
52-53	55-57	73-76	11	24.2
51	54	72	10	23.0
49-50	52-53	70-71	9	21.8
47-48	50-51	67-69	8	20.4
46	49	65-66	7	18.9
45	47-48	63-64	6	17.3
44	46	61-62	5	15.4
39-43	41-45	55-60	4	13.1
37-38	38-40	50-54	3	10.4
33-36	33-37	44-49	2	6.7
1-32	1-32	1-43	1	1.0

WR/ckb:1/2948h

TABLE B26

SPRING NORMS BASED ON TOTAL TEST SCORE - GRADE 10

LAB-Form A Raw Score	LAB-Form B Raw Score	MAC Raw Score	Percentile	NCE
135-139	136-139	178-199	99	99.0
129-134	130-135	171-177	98	93.3
128	129	170	97	89.6
126-127	127-128	167-169	96	86.9
125	126	166	95	84.6
		165	94	82.7
124	125	164	93	81.1
123	124	163	92	79.6
121-122	122-123	161-162	91	78.2
		160	90	77.0
120	121	159	89	75.8
119	120	158	88	74.7
118	119	157	87	73.7
117	118	156	86	72.8
115-116	116-117	153-155	85	71.8
114	115	152	84	70.9
113	114	151	81	68.5
112	113	150	80	67.7
		149	79	67.0
111	112	148	76	64.9
		147	74	63.5
110	111	146	73	62.9
108-109	109-110	144-145	71	61.7
106-107	108	143	69	60.4
		142	68	59.9
105	107	141	67	59.3
104	106	140	65	58.1
103	105	139	64	57.5
		138	62	56.4
102	104	137	61	55.9
101	103	136	60	55.3
100	102	135	59	54.8
99	101	134	57	53.7
		133	56	53.2
98	100	132	55	52.6
97	99	131	54	52.1
95-96	97-98	128-130	52	51.1
94	96	127	50	50.0
93	95	126	49	49.5
92	94	125	48	48.9
		124	46	47.9
91	93	123	44	46.8
90	92	122	43	46.3
89	91	121	41	45.2
88	90	120	39	44.1
87		119	38	43.6
85-86	88-89	117-118	37	43.0
84	87	116	35	41.9
83	86	114-115	34	41.3
82	85	113	32	40.1
80-81	84	112	31	39.6

TABLE B26
(continued)

SPRING NORMS BASED ON TOTAL TEST SCORE - GRADE 10

LAB-Form A Raw Score	LAB-Form B Raw Score	MAC Raw Score	Percentile	NCE
79	83	110-111	30	39.0
78	82	109	28	37.7
77	81	108	27	37.1
76	80	106-107	26	36.5
75	79	105	25	35.8
74	78	104	24	35.1
73	77	103	23	34.4
72	76	102	22	33.7
		101	21	33.0
69-71	73-75	98-100	20	32.3
68	72	97	19	31.5
67	71	95-96	18	30.7
66	70	94	17	29.9
65	69	93	16	29.1
63-64	67-68	90-92	15	28.2
60-62	64-66	86-89	14	27.2
58-59	62-63	83-85	13	26.3
56-57	60-61	81-82	12	25.3
55	59	80	11	24.2
53-54	56-58	76-79	10	23.0
52	55	74-75	9	21.8
50-51	53-54	72-73	8	20.4
48-49	51-52	69-71	7	18.9
43-47	46-50	63-68	6	17.3
41-42	43-45	59-62	5	15.4
36-40	39-42	54-58	4	13.1
34-35	36-38	50-53	3	10.4
30-33	31-35	44-49	2	6.7
1-29	1-30	1-43	1	1.0

WR/ckb:1/2988h

TABLE B27

SPRING NORMS BASED ON TOTAL TEST SCORE - GRADE 11

LAB-Form A Raw Score	LAB-Form B Raw Score	MAC Raw Score	Percentile	NCE
129-139	130-139	174-199	99	99.0
128	129	173	98	93.3
		172	97	89.6
126-127	127-128	170-171	95	84.6
125	126	168-169	94	82.7
123-124	124-125	165-167	92	79.6
122	123	164	91	78.2
121	122	163	89	75.8
120	121	162	87	73.7
		161	86	72.8
119	120	160	85	71.8
118	119	159	83	70.1
117	118	158	81	68.5
		157	79	67.0
116	117	156	78	66.3
115	116	155	77	65.6
114	115	154	75	64.2
		153	73	62.9
113	114	152	72	62.3
112	113	151	70	61.0
111	112	150	68	59.9
		149	67	59.3
110	111	148	66	58.7
109	110	147	64	57.5
108	109	146	62	56.4
107		145	61	55.9
105-106	107-108	143-144	60	55.3
		142	59	54.8
104	106	141	58	54.2
103	105	140	56	53.2
102	104	139	55	52.6
		138	54	52.1
101	103	137	53	51.6
100	102	136	52	51.1
99	101	135	51	50.5
98	100	133-134	49	49.5
96-97	98-99	131-132	48	48.9
		130	47	48.4
95	97	129	46	47.9
94	96	128	45	47.4
93	95	127	44	46.8
		126	43	46.3
92	94	125	41	45.2
90-91	92-93	123-124	39	44.1
89		122	38	43.6
87-88	90-91	120-121	36	42.5
86	89	119	35	41.9
85	88	117-118	32	40.1
84	87	116	31	39.6
		115	30	39.0
83	86	114	29	38.3
82	85	113	28	37.7

TABLE B27
(continued)

SPRING NORMS BASED ON TOTAL TEST SCORE - GRADE 11

LAB-Form A Raw Score	LAB-Form B Raw Score	MAC Raw Score	Percentile	NCE
81	84	112	27	37.1
80		111	25	35.8
79	83	110	24	35.1
78	82	109	23	34.4
76-77	80-81	106-108	22	33.7
74-75	78-79	104-105	21	33.0
		103	19	31.5
72-73	76-77	101-102	18	30.7
71	75	99-100	17	29.9
70	74	98	16	29.1
69	73	97	15	28.2
68	72	95-96	14	27.2
66-67	70-71	93-94	13	26.3
65	69	91-92	12	25.3
64	68	90	11	24.2
63	67	88-89	10	23.0
62	66	87	9	21.8
57-61	61-65	80-86	8	20.4
56	60	79	7	18.9
49-55	52-59	68-78	6	17.3
46-48	48-51	63-67	5	15.4
45	47	61-62	4	13.1
40-44	42-46	55-60	3	10.4
35-39	37-41	48-54	2	6.7
1-34	1-36	1-47	1	1.0

WR/ckb:1/2989h

TABLE B28

SPRING NORMS BASED ON TOTAL TEST SCORE - GRADE 12

LAB-Form A Raw Score	LAB-Form B Raw Score	MAC Raw Score	Percentile	NCE
138-139	139	186-199	99	99.0
134-137	135-138	181-185	98	93.3
133	134	179-180	97	89.6
132	133	178	96	86.9
130-131	131-132	176-177	94	82.7
129	130	174-175	93	81.1
128	129	173	92	79.6
127	128	172	91	78.2
		171	89	75.8
125-126	126-127	169-170	88	74.7
124	125	168	86	72.8
123	124	166-167	83	70.1
122	123	165	81	68.5
121	122	164	80	67.7
120	121	163	78	66.3
119	120	162	76	64.9
118	119	160-161	73	62.9
117	118	159	70	61.0
116	117	158	69	60.4
		157	66	58.7
115	116	156	65	58.1
114	115	155	62	56.4
112-113	113-114	153-154	60	55.3
111		152	58	54.2
110	112	151	56	53.2
109	111	150	55	52.6
108	110	149	54	52.1
107	109	148	52	51.1
		147	51	50.5
106	108	146	49	49.5
104-105	106-107	144-145	47	48.4
		143	45	47.4
101-103	103-105	140-142	44	46.8
100	102	139	43	46.3
99		138	42	45.8
96-98	99-101	135-137	40	44.7
95	98	133-134	39	44.1
94	97	132	37	43.0
93	96	131	35	41.9
92	95	130	34	41.3
91	94	129	33	40.7
		128	32	40.1
90	93	127	31	39.6
89	92	126	30	39.0
88	91	125	29	38.3
		124	28	37.7
85-87	88-90	121-123	26	36.5
84	87	120	25	35.8
83		119	24	35.1
82	86	118	22	33.7
81	85	117	20	32.3

TABLE B28
(continued)

SPRING NORMS BASED ON TOTAL TEST SCORE - GRADE 12

LAB-Form A Raw Score	LAB-Form B Raw Score	MAC Raw Score	Percentile	NCE
79-80	83-84	115-116	19	31.5
		114	18	30.7
76-78	80-82	110-113	17	29.9
73-75	77-79	107-109	16	29.1
72	76	106	15	28.2
		105	14	27.2
71	75	104	13	26.3
69-70	73-74	102-103	12	25.3
66-68	70-72	98-101	11	24.2
61-65	65-69	92-97	9	21.8
60	64	90-91	8	20.4
59	63	89	7	18.9
56-58	60-62	85-88	6	17.3
53-55	57-59	81-84	5	15.4
50-52	53-56	76-80	4	13.1
44-49	46-52	67-75	3	10.4
34-43	35-45	53-66	2	6.7
1-33	1-34	1-52	1	1.0

WR/ckb:1/3002h

APPENDIX C

Fall and Spring Cutoff Scores* for the Maculaitis Assessment Program (MAC) and the Language Assessment Battery (LAB)

	LAB						MAC			
			Cutoff Score Form A		Cutoff Score Form B					
Grade	Test Level	Total Possible Score	Fall	Spring	Fall	Spring	Test Level	Total Possible Score	Cutoff Score Fall	Cutoff Score Spring
K[1]	I	30	26	29	24	28	Pink	126	93	108
K[2]	I	58	-	51	-	50	Pink	126	-	-
1[3]	I	58	56	-	55	-	Pink	126	-	-
1[4]	I	58	51	54	50	53	Pink	126	108	114
2	I	58	53	56	53	56	Blue	177	131	147
3	II	112	87	94	89	97	Blue	177	140	149
4	II	112	100	104	102	105	Orange	209	149	157
5	II	112	102	105	104	106	Orange	209	162	169
6	III	139	111	115	111	115	Ivory	199	148	153
7	III	139	113	117	113	117	Ivory	199	149	154
8	III	139	118	120	118	120	Ivory	199	156	158
9	IV	139	110	115	111	116	Tan	199	148	155
10	IV	139	115	118	116	119	Tan	199	153	157
11	IV	139	119	121	120	122	Tan	199	160	163
12	IV	139	123	124	124	125	Tan	199	166	168

1 Kindergarteners who take only the Listening/Speaking subtest of the LAB in the fall or spring or the MAC.

2 Kindergarteners who take both the Listening/Speaking subtest and the Beginning Reading subtest of the LAB in the spring.

3 First graders who take the Listening/Speaking and Beginning Reading subtest of the LAB in the fall.

4 First graders who take the the Listening/Speaking and Reading/Writing subtest of the LAB in the fall or spring or the MAC.

*The cutoff scores are based on total test raw scores and are effective as of spring 1989.

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